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Yields of the Field Experiments 1991

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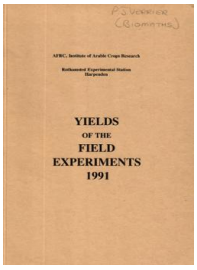

91/R/SU/1 Varieties and Sowing Dates - Sunflowers

Rothamsted Research

Rothamsted Research (1992) *91/R/SU/1 Varieties and Sowing Dates - Sunflowers ;* Yields Of The Field Experiments 1991, pp 159 - 160 **- DOI: https://doi.org/10.23637/ERADOC-1-46**

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91/R/SU/1

SUNFLOWERS

VARIETIES AND BOTRYTIS

Object: To study the incidence of Botrytis cinerea on two varieties of sunflower and to compare their yields in the absence of fungicide treatment - Great Harpenden I.

Sponsors: V.J. Church, B.D.L. Fitt.

Design: 8 randomised blocks of 2 plots.

Whole plot dimensions: 3.5 x 10.0.

Treatments:

VARIETY Varieties:

S 47
ALLEGRO

Basal applications: Manures: (0:16:36) at 980 kg. (12:20:20) at 380 kg. Weedkillers: Trifluralin at 1.1 kg in 200 l. Linuron at 0.48 kg in 200 l.

Seed: Varieties, sown at 12 seeds per square metre.

Cultivations, etc.:- First PK applied: 3 Sept, 1990. Ploughed: 11 Dec. NPK applied: 11 Apr, 1991. Heavy spring-tine cultivated: 24 Apr. Rotary harrowed, trifluralin applied, rotary harrowed, seed sown, rolled: 29 Apr. Linuron applied: 9 May. Hand harvested: 9 Sept. Previous crops: W. barley 1989 and 1990.

NOTE: Selected plants were monitored daily for growth stage and for disease from flowering to harvest. Numbers of Botrytis spores were recorded daily using a Burkard spore trap. Seed moisture content was measured at intervals after flowering.

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91/R/SU/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

VARIETY	
S 47	2.48
ALLEGRO	2.43
Mean	2.45

*** Standard errors of differences of means ***

VARIETY
0.071

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	7	0.143	5.8

GRAIN MEAN DM% 71.2

PLOT AREA HARVESTED 0.00150

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